

IFW



Attorney Docket No. 056646-5022

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application of

Inventors: Shik Chi TSANG et al.

Appln. No.: 10/500,843

Filed: January 27, 2005

Title: MICROPARTICLES AND METHODS OF  
MAKING THEM

Group Art Unit: 1754

Examiner: unassigned

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Commissioner of Patents and Trademarks  
U.S. Patent and Trademark Office  
Customer Window  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314

Sir:

Supplementing the Disclosure Statement filed on July 7, 2004, attached hereto is a further PTO-1449 listing patent application (JP-A-02069904) and two papers by Jeyadevan et al. and Turgut et al. which are referred to in the applicants' specification. See page 2 thereof. Copies of these references are attached together with an abstract in English of the JP reference.

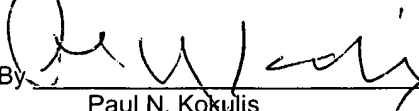
The attached PTO-1449 also lists references cited in related commonly assigned U.S. Appln. No. 10/500,842. Copies of these references are not included as they are available in the file of Appln. No. 10/500,842.

The Examiner is requested to consider this submission and the references listed herein and in Appln. No. 10/500,842 in the examination of this application.

No fees are thought necessary for this submission but, if any should be required, please charge to Deposit Account No. 50-0310.

Respectfully submitted,

MORGAN LEWIS & BOCKIUS LLP

By 

Paul N. Kokulis  
Reg. No. 16773

Date: August 18, 2005

Customer No. 09629

1111 Pennsylvania Avenue, N.W.  
Washington, D.C. 20004  
Phone: (202) 739-3000  
Facsimile: (202) 739-3001  
Direct: (202) 739-5455

1-WA/2340254.1

**The PTO did not receive the following  
listed items(s) Some FORS & NPG**

FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
(PW FORM PAT-1449)  
Patent and Trademark Office



Atty. Dkt. No.	M#	Client Ref.
	056646-5022-US	HP/LP6233969

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

Applicant: Shik Chi TSANG et al.

Appln. No.: 10/500,843

Filing Date: January 27, 2005

Date: August 18, 2005

Page 1 of 2

Examiner: unassigned

Group Art Unit: 1754

## **U.S. PATENT DOCUMENTS**

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR 5,547,748	08/1996	Ruoff et al.	428	323	
	BR 6,009,457	12/1999	Moller	709	203	
	CR 5,472,749	12/1995	Dravid et al.			
	DR 2001/0051766 A1	12/2001	Gazdzinski	600	309	

## **FOREIGN PATENT DOCUMENTS**

	Document Number	Date MM/YYYY	Country	Applicant Name		English Abstract		Translation Readily Available	
						Enclosed	No	Enclose	No
ER	02-069904	03/1990	Japan	Yoshiteru et al.	H01F				
FR	WO 0200192	01/2002	PCT	Klein	A61K				

## **OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)**

GR	Jeyadevan et al., "Oxidation Protective Carbon Layer for Magnetic Particles by Surfactant Reduction", IEEE Transactions on Magnetics, 32(5):4511-4513 (September, 1996)*			
HR	Turgut et al., "Magnetic evidence for structural-phase transformations in Fe-Co alloy nanocrystals produced by a carbon arc", J. Appl. Phys., 81(8):4039-4041 (April 15, 1997)*			
IR	Heath et al., "Lanthanum Complexes of Spheroidal Carbon Shells", J. Am. Chem. Soc., 107:7779-7780 (1985)	X		
JR	Majetich et al., "Preparation and properties of carbon-coated magnetic nanocrystallites", Phys. Rev. B, 48:16 845-16 848 (December 1, 1993)	X		
KR	Seraphin et al., Am. Inst. Phys., 80:2097-2104 (August 15, 1996)	X		
LR	Y. Saito, "Nanoparticles and Filled Nanocapsules", Carbon, 33(7):979-988 (1995)	X		
MR	Dravid et al., "Controlled-size nanocapsules", Nature, 374:602 (April 13, 1995)	X		
NR	Heath et al., "The Formation of Long Carbon Chain Molecules during Laser Vaporization of Graphite", J. Am. Chem. Soc., 109:359-363 (1987)	X		
OR	D. Ugarte, "How to fill or empty a graphitic onion", Chem. Phys. Lett., 209(1,2):99-103 (June 25, 1993)	X		
PR	Tsang et al., "Thinning and opening of carbon nanotubes by oxidation using carbon dioxide", Nature, 362:520-522 (April 8, 1993)	X		
QR	Tsang et al., "A simple chemical method of opening and filling carbon nanotubes", Nature, 372:159-161 (November 10, 1994)	X		
RR	Tsang et al., "Immunobilization of Platinated and Iodinated Oligonucleotides on Carbon Nanotubes", Angew. Chem. Int. Ed. Engl., 36(20):2198-2200 (1997)	X		

Examiner

Date Considered:

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
(PW FORM PAT-1449)  
Patent and Trademark Office



Atty.  
Dkt. No.

M#

Client Ref.

056646-5022-US

HP/LP6233969

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

Applicant: Shik Chi TSANG et al.

Appln. No.: 10/500,843

Filing Date: January 27, 2005

Date: August 18, 2005

Page

2

of

2

Examiner: unassigned

Group Art Unit: 1754

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

AR	Harris et al., "A simple technique for the synthesis of filled carbon nanoparticles", Chem. Phys. Lett., 293:53-58 (1998)	X			
BR	Harris et al., "Encapsulating uranium in carbon nanoparticles using a new technique", Carbon, 36:185-1860 (1998)	X			
CR	Baker et al., "Formation of Filamentous Carbon from Iron, Cobalt and Chromium Catalyzed Decomposition of Acetylene", Journal of Catalysis, 30:86-95 (1973)	X			
DR	Harris et al., "High-resolution electron microscopy studies of non-graphitizing carbons", Philosophical Magazine A, 76(3):667-677 (1997)	X			
ER	Host et al., "Graphite encapsulated nanocrystals produced using a low carbon:metal ratio", J. Mater. Res., 12(5):1268-1273 (May 1997)	X			
FR	Subramoney et al., "Radial single-layer nanotubes", Nature, 366:637 (December 16, 1993)	X			
GR	D. Ugarte, Nature, 359:707-709 (October 22, 1992)	X			
HR	Lulli et al., "Influence of electron-beam parameters on the radiation-induced formation of graphitic onions", Ultramicroscopy, 60:187-194 (1995)	X			
IR	Burch et al., "Technegas-a new ventilation agent for lung scanning", Nuclear Medicine Communications, 7:865-871 (1986)	X			
JR	Burch et al., "Lung Ventilation Studies with Technetium-99m Pseudogas", The Journal of Nuclear Medicine, 27:842-846 (1986)	X			
KR	Senden et al., "The Physical and Chemical Nature of Technegas", J. Nucl. Med., 38:1327-1331 (1997)	X			
LR	Ng et al., "Thermal-Induced Microstructural Changes of Nickel-Iron Cyanide", J. Phys. Chem. A, 104:8814-8822 (2000)	X			
MR	Gadd et al., "The encapsulation of Ni in graphitic layers using C <sub>60</sub> as a precursor", Carbon 39:1769-1787 (2001)				

Examiner

Date Considered:

**\*EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.